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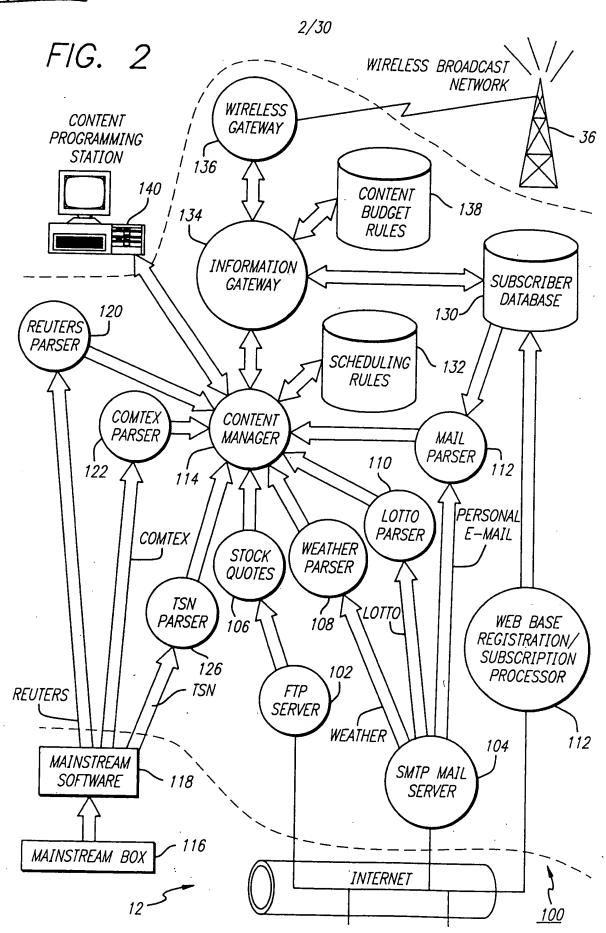
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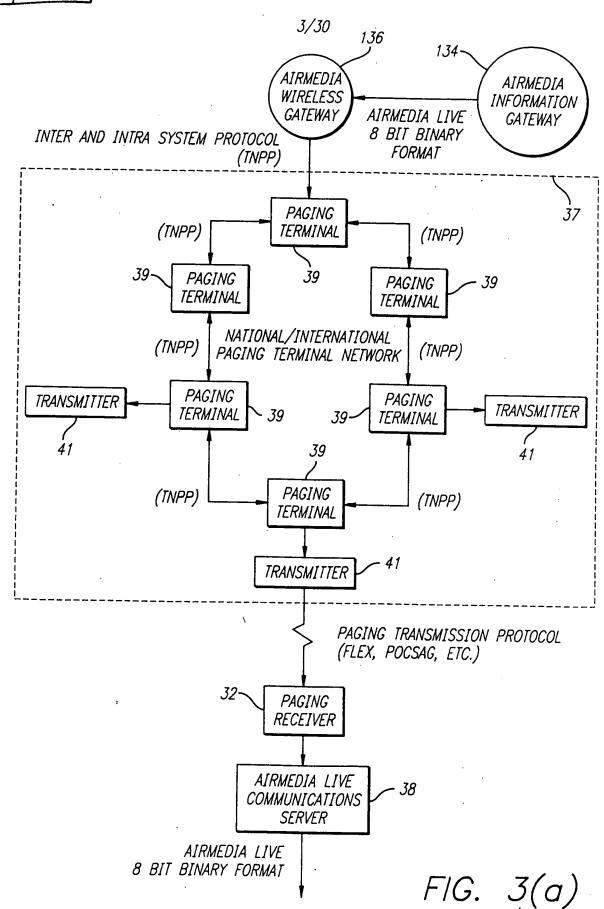
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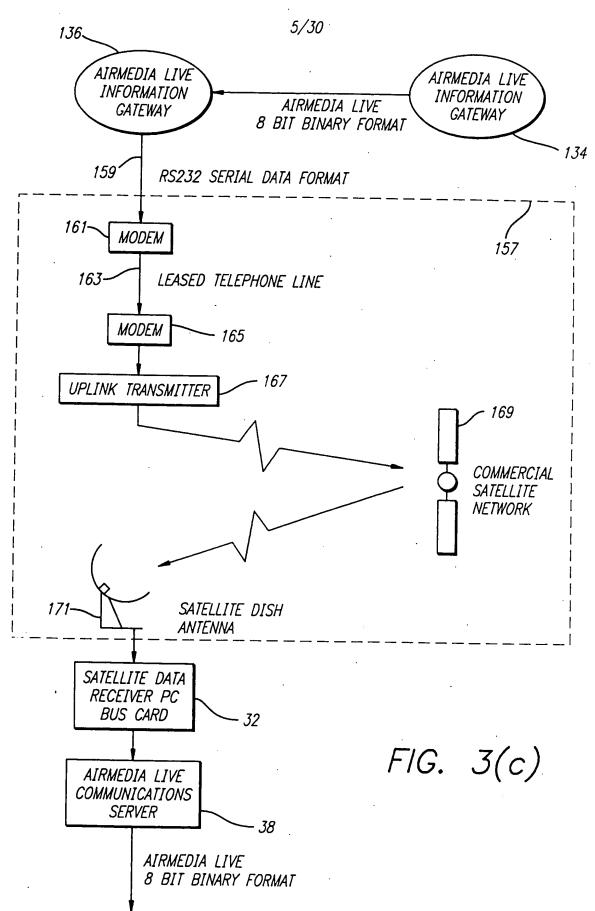


4/30 AIRMEDIA LIVÈ 136-AIRMEDIA LIVE **WIRELESS** INFORMATION AIRMEDIA LIVE GATEWAY GATEWAY 8 BIT BINARY FORMAT RS232 134 -137 139-MODEM 35 141-LEASED TELEPHONE LINE MODEM TELEVISION NETWORK BROADCAST TRANSMISSION SITE 145-ENCODER COMBINES VBI DATA WITH THE VBI ENCODER TELEVISION VIDEO SIGNAL 147-SATELLITE TELEVISION PROGRAMMING UPLINK TRANSMITTER BROADCAST WITH VBI DATA 153 149 SATELLITE TV - 151 ANTENNA/RECEIVER STANDARD TELEVISION SIGNAL 153-DECODER EXTRACTS VBI DATA PC VBI DECODER FROM TELEVISION VIDEO SIGNAL 155-AIRMEDIA LIVE COMMUNICATIONS SERVER AIRMEDIA LIVE FIG. 3(b) 8 BIT BINARY FORMAT 38

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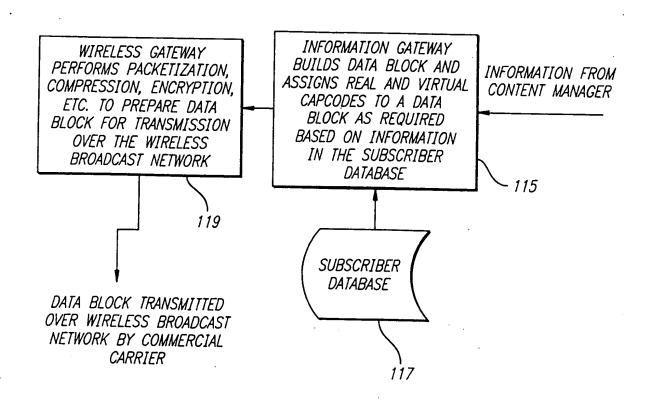


FIG. 4

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Item	Size	Description	Г
Header:			_
CRC	2 bytes	Standard Cyclical Redundancy Code to verify data block integrity.	
Header Type	1 bit	If bit clear, then this is a message header. If bit set, then this is the data	7
		block header.	
Custom Header Flag	1 bit	If bit clear, no custom header. If bit set, then a custom header is included in	1
		the data block.	
Version Number	4 bits	Protocol version used.	7/
Private Data Block Flag	1 bit	s data block will be passed on to the Alert Panel for	30
		processing and display. If bit set, then this is a private data block to be	
		processed internally by the Communications Server.	
Virtual Capcode Flag	1 bit	If bit clear, then this data block is not targeted for a specific virtual	1
		capcode and no virtual capcode is included in the data block. If bit set, then	
		this data block contains a virtual capcode.	
Data Block Type	1 byte	The value of this byte specifies the type of data contained in the data block.	1
		If Private Data Block Flag is clear: 1 = plain text, 2 = AirMedia Live data feed	
		format. If Private Data Block Flag is set: 1 = Capcode reprogramming message. 2	
		= Binary file transfer.	
Data Block Version	4 bits	The version number of this data block's format.	
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compression is used and the compression type is specified in the Compression ID If bit clear, then this data block is not encrypted. If bit set, then this data Included only if Use Compression Flag is set. Indicates the type of compression Included only if Virtual Capcode flag is set. Contains the virtual capcode to Included only if Custom Header Flag is set. Contains the size in bytes of the Reserved for future enhancements to data block protocol. Size determined from Information notification data from the information source to be processed by If bit clear, then this data block is not compressed. If bit set, then which this data block is targeted. Reserved for future use. AirMedia Live software. block is encrypted. custom header. previous item. used. variable variable 1 byte 1 byte 2 bits 1 byte bit bit Size of Custom Header Use Compression Flag Use Encryption Flag Data Block Contents Virtual Capcode Compression ID Custom Header (optional) (optional) (optional) (optional) Contents: Spare

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Personal alert notification data. Size of data is determined by the Alert Length The value of this item defines the alert type (e.g. new e-mail arrival alert). Up to 256 predefined alert types are allowed. The size of the alert data in bytes. item. variable 1 byte 1 byte Alert Length Alert Type Alert Data Contents:

Description

Size

Item

Header:

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Trem	Size	Description
Header:		
Packet Type	4 bits	The value of this item indicates the packet type: 0 = Standard AirMedia Live
		Packet; 1 = Single Packet Data Block; if the left most bit (high bit) is set
		then this is a Binary Alert Packet.
Data Block ID	12 bits	12 bits The ID of the data block contained in this packet.
Contents:		
Packet Contents	variable	variable The header and contents of the data block contained in this nacket

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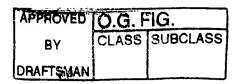
Item	Size	Description
Header:		
CRC	2 bytes	Standard Cyclical Redundancy Code to verify message integrity.
Header Type	1 bit	If bit clear, then this is a message header. If bit set, then this is the data
	-	block header.
Custom Header Flag	1 bit	If bit clear, no custom header. If bit set, then a custom header is included in
		the message.
Data Block ID	14 bits	ID of the data block to which this message belongs.
Message Number	1 byte	The position of this message in the data block (i.e. message sequence number)
Total Messages	1 byte	Total number of messages in the data block.
Size of Custom Header	1 byte	Included only if Custom Header Flag is set. Contains the size in bytes of the
(optional)		custom header.
Custom Header	variable	Reserved for future enhancements to message protocol. Size determined from
(optional)		previous item.
Contents:		
Message Contents	variable	The data portion of the message.

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Item	Size	Description
Header:		
Packet Type	4 bits	The value of this item indicates the packet type: 0 = Standard AirMedia Live
		Packet; 1 = Single Packet Data Block; if the left most bit (high bit) is set, then this is a Binary Alert Packet.
Total Packets Flag	1 bit	If bit is clear, then the Total Data Packets and Total Error Correction Packets
		items are not present. If bit is set, then the Total Data Packets and Total Error Correction Packets items are present
Message ID	11 bits	The number of the message to which this packet belongs
Packet Number	1 byte	The position of this packet in the message (packet sequence number)
Total Data Packets	1 byte	Total number of data packets in the message (does not include error correction
		packets).
Total Error Correction 1 byte	1 byte	Total number of Reed-Solomon forward error correction packets in the message
Packets		
Contents:		
Packet Contents	variable	The data portion of the packet.

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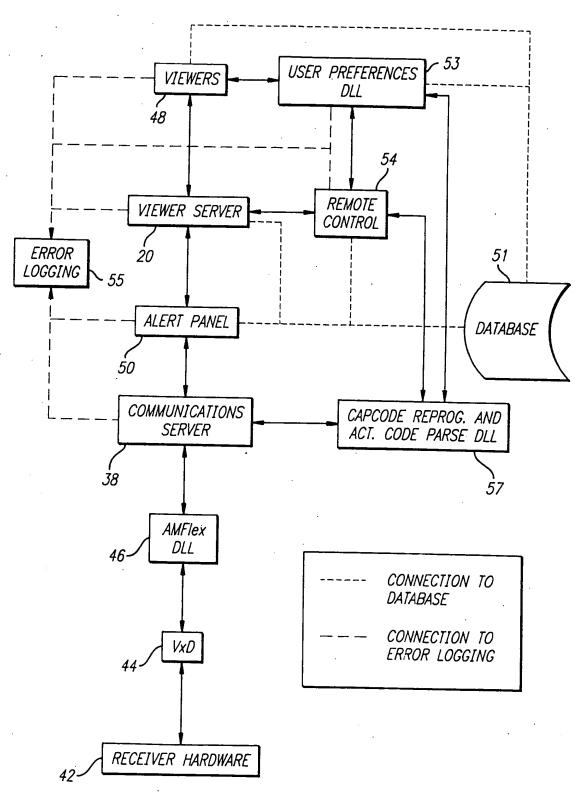
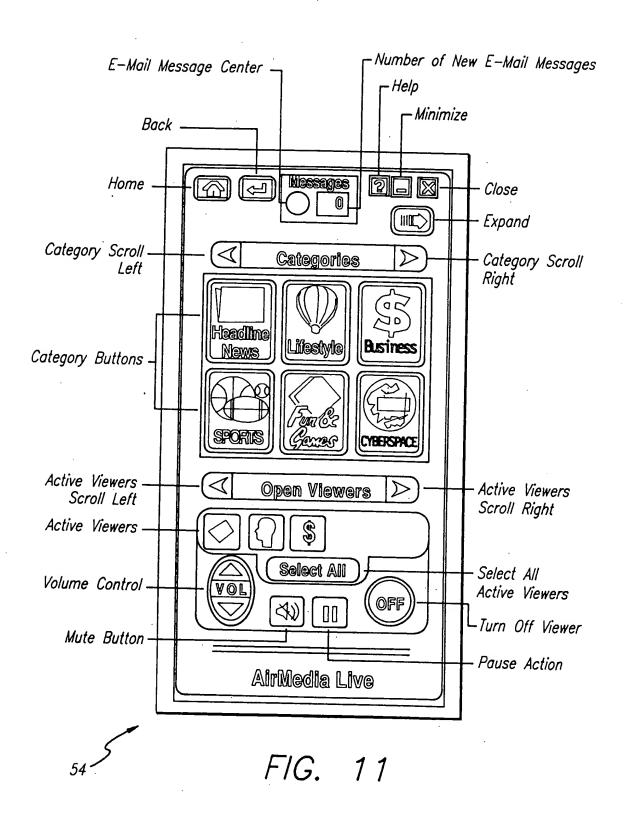


FIG. 10



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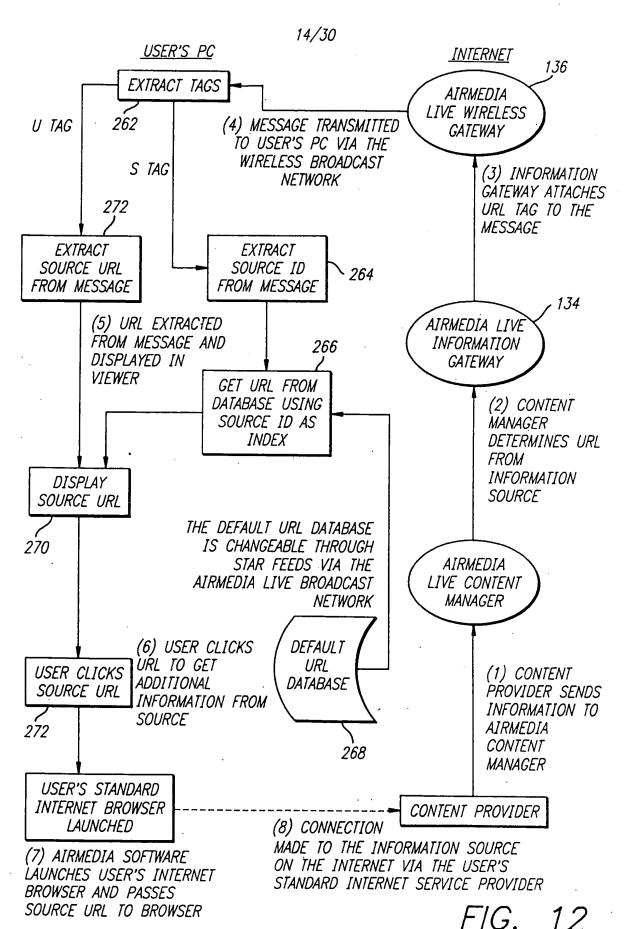
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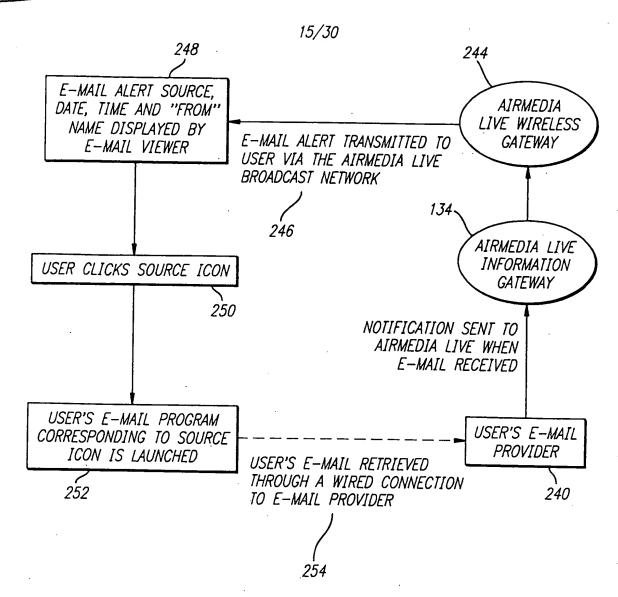


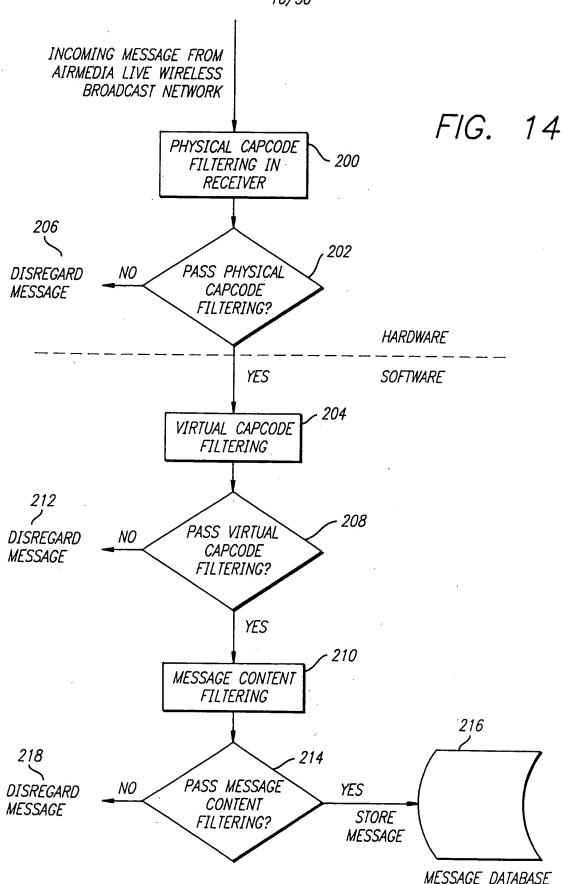
FIG. 13

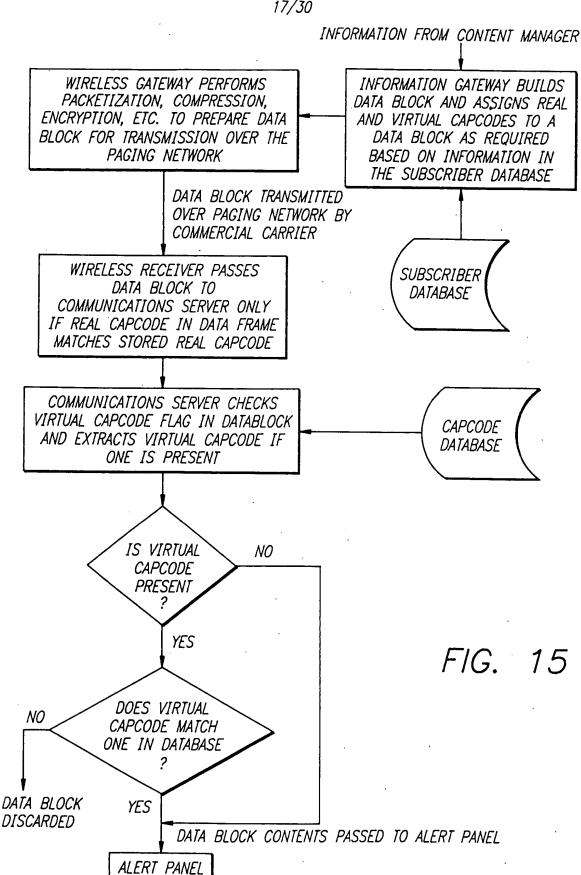
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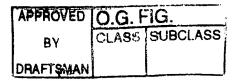
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		column s	×	×	•	•	•	×	×	×	×		•	•	×
						:	:	:					:	:	:
		column 3	×	×		•	•	×	×	×	×		•	•	×
		column 2	×	×	•	•	•	×	×	×	×	•	•	•	×
	Packet	column 1	×	×	•	•	•	× .	×	×	×		•	•	×
	Packet Header		header 1	header 2	•	•	•	header p	header p + 1	header p + 2	header p + 3	•	•	•	header p + x
Whole Packets			packet 1:	packet 2:	•	•	•	packet p:	packet p + 1	packet.p + 2	packet p + 3	•	•	•	packet p + x

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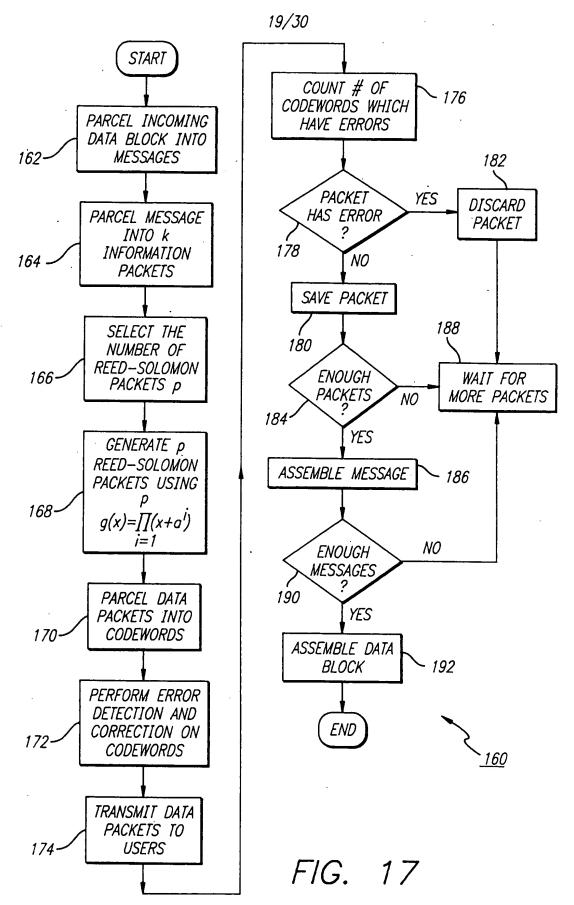
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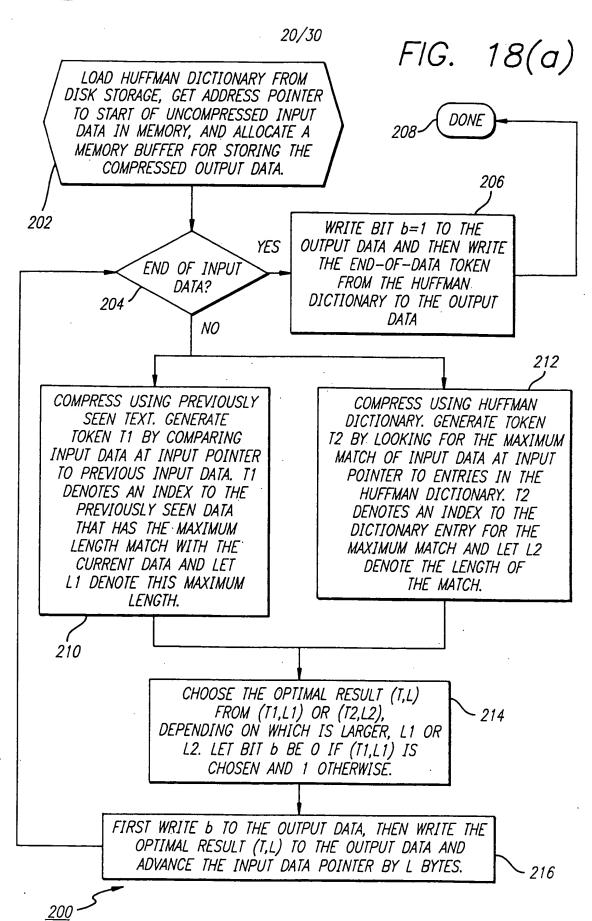


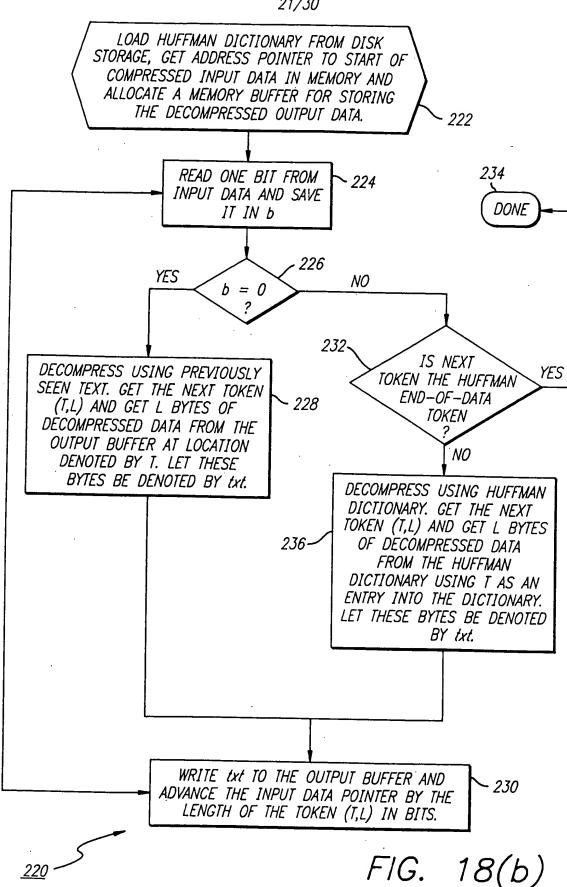
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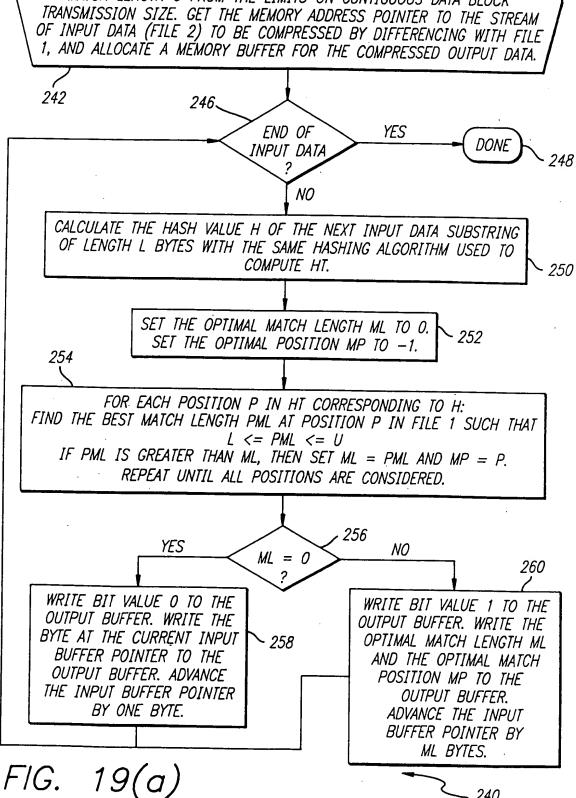
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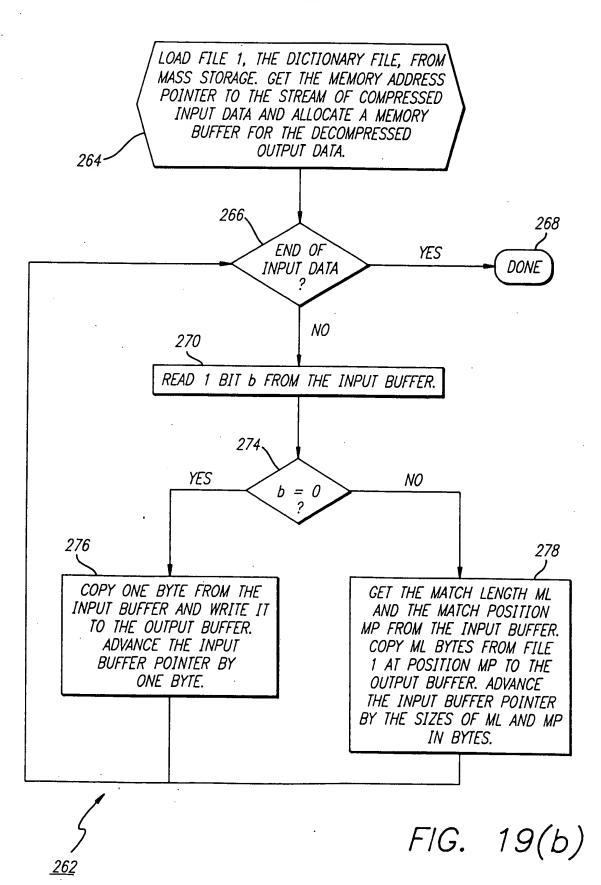
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LOAD THE PRECOMPUTED STANDARD HASH TABLE HT FOR FILE 1, THE DICTIONARY FILE, FROM MASS STORAGE. SET THE MINIMUM MATCH LENGTH L FROM THE LENGTH USED IN CREATING HT. SET THE MAXIMUM MATCH LENGTH U FROM THE LIMITS ON CONTIGUOUS DATA BLOCK TRANSMISSION SIZE. GET THE MEMORY ADDRESS POINTER TO THE STREAM 1, AND ALLOCATE A MEMORY BUFFER FOR THE COMPRESSED OUTPUT DATA.



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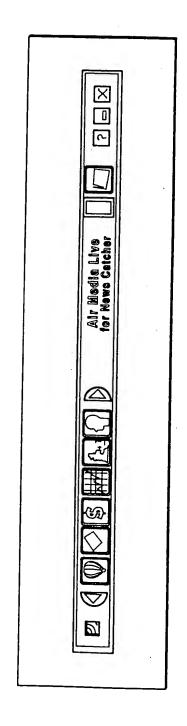
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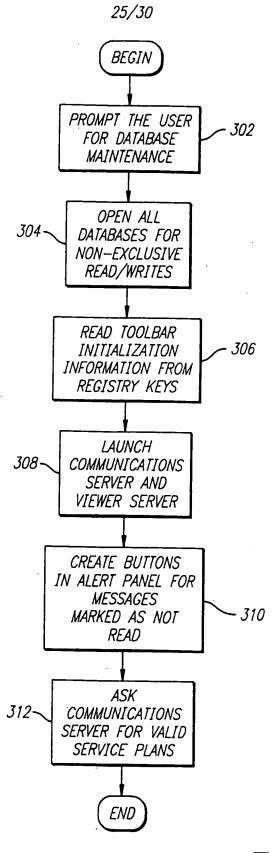
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FIG 21

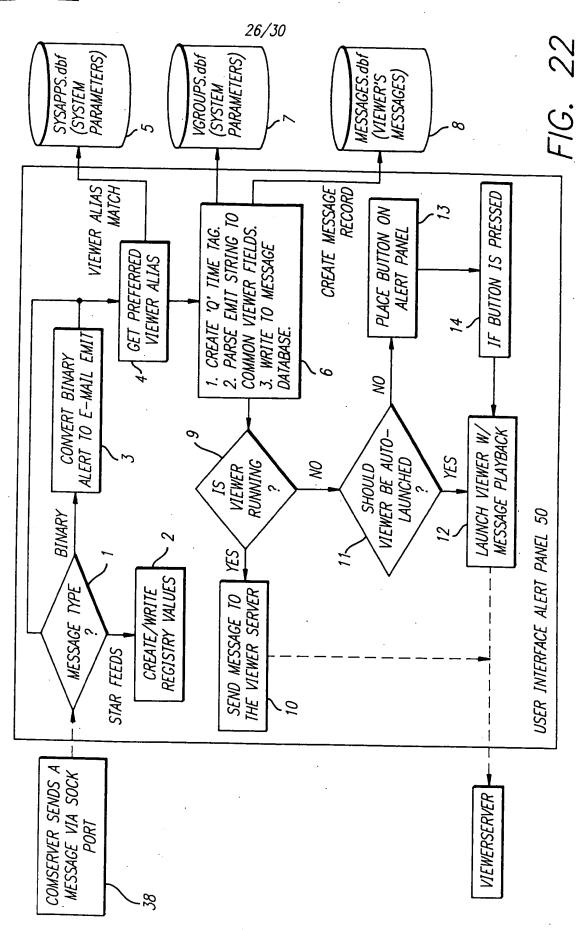


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FIG. 21

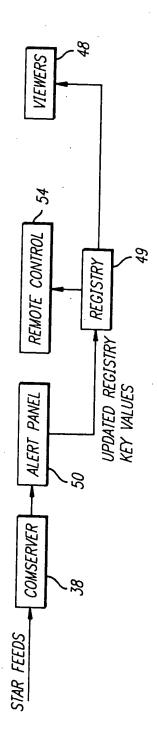


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FIG 23

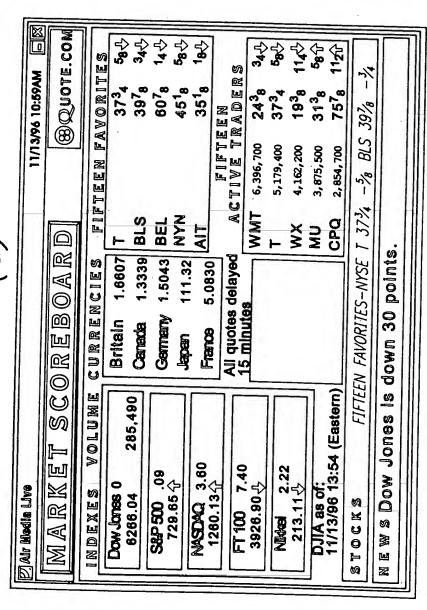


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FIG. 24(a)



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FIG. 24(b)

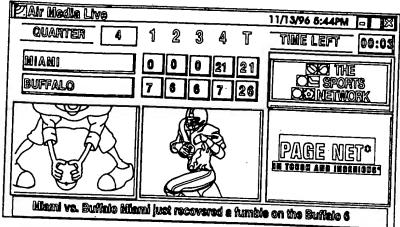


FIG. 24(c)

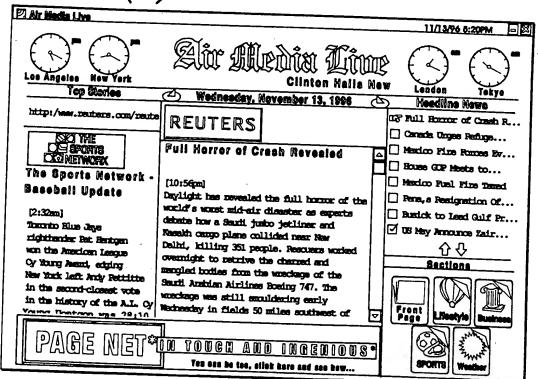
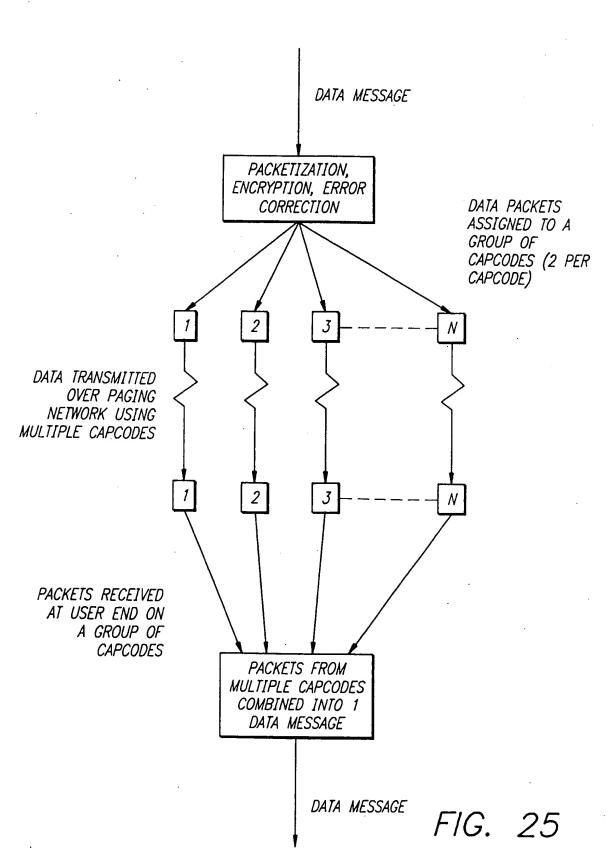


FIG. 24(d)

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	18 BC	E 33	CBI	31	DDL	2	ECC	<u></u>	1/4	FMN	10	®QUOTE.	
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